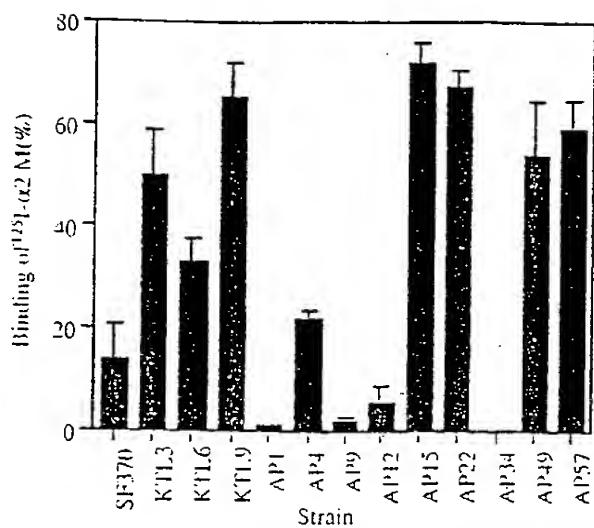
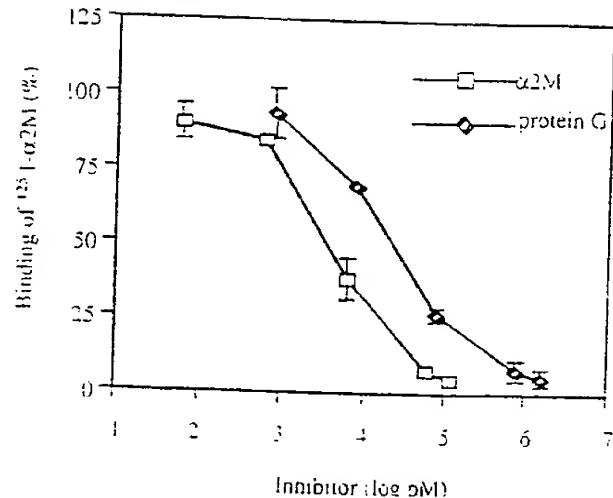


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A.



B.



C.

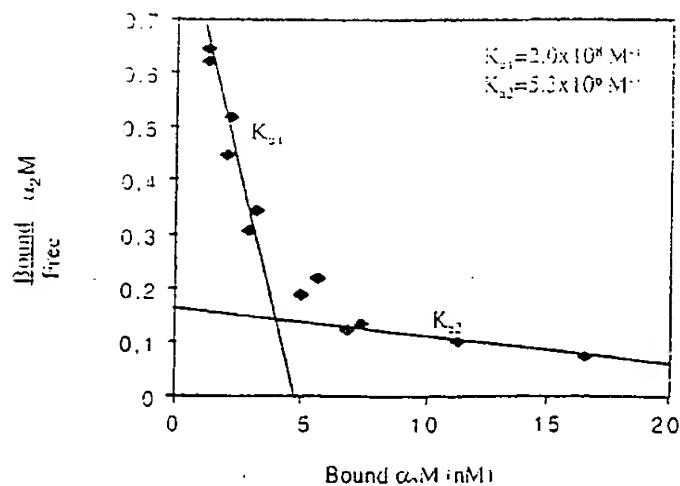
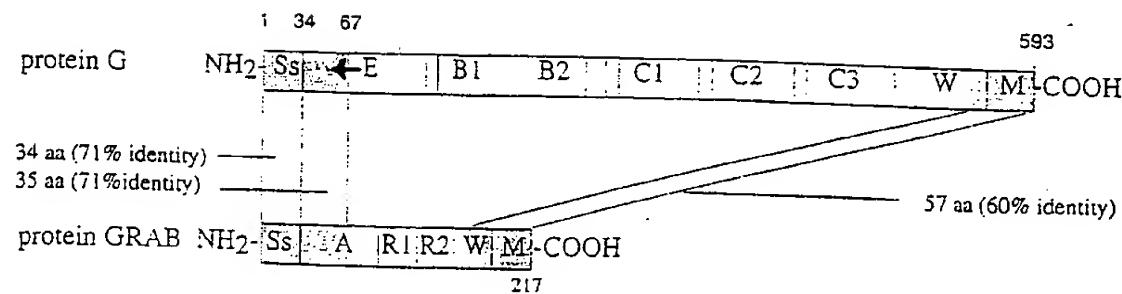


FIG. 1

A.

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B.

TTTCCAATTATCGGTAAATTAAATGCTAATGCATATAAAAATAAAAAGGAGAAACA 60
 ATGGGAAAAGAAATAAAAGTGAATGCTTTGCGTAGATCAGCTTGATTAGTTCGCG 120
 M G K E I K V K C F L R R S A F G L V A 20
 ↗ Ss → A

GTGTCAAGCATCACTATTAGTCGGTTAACAGTATCTGCTGTTGACTCACCTATCGAACAG 180
 V S A S V L V G S T V S A V D S P I E Q 40
 ↗ A

CCTCGAATTATTCAAATGGCGGAACCTTAACTAATCTTCTGGCAATGCTCCAGAAAAA 240
 P R I I P N G G T L T N L L G N A P E K 60

CTGGCATTACGTAATGAAGAAAGGCCATTGATGAATTAAAAAAACAAGCTATTGAGGAT 300
 L A L R N E E R A I D E L K K Q A I E D 80

AAAGAAGCTACGACAGCTATAGAACGAGCAAGTTAGATGCCCTAGAACGCTTACGGAT 360
 K E A T T A I E A A S S D A L E A L A D 100
 ↗ R1

CAAAACAGACGCTTTACAATCAGAACAGCTGGGTTAAAGCGGATAACGCTGCTAGT 420
 Q T D A L Q S E E A A V V K A D N A A S 120
 ↗ R2

GACGCCTTAGAACGATTGGCGGATCAAACAGACGCTTACAATCAGAACAGCTGAAGTA 480
 D A L E A L A D Q T D A L Q S E E A E V 140

GTTCAATCAGATAACGCTGCTAGTGACGCCCTGGGAAAAAGCAGCAACTCCAATCGCTTTA 540
 V Q S D N A A S D A W E K A A T P I A L 160
 ↗ W

GATGTTAAGAAAACAAAGATAACAAACCTGTAGTTAAAAAGAACAGAACAGCTT 600
 D V K K T K D T K P V V K K E E R Q N V 180

AATAACCCCTCCTACAACTGGTGAAGAGTCTAACCCATTCTTACAGCTGCTGCGCTTGCA 660
 N T L P T T G E E S N P F F T A A A L A 200
 ↗ M

ATAATGGTAAGTACAGGTGTGTTAGTTAGTCAAGTCAAAGTCAAAGAACAGAAATTAGTTGCTAT 720
 I M V S T G V L V V S S K C K E N . 217

TTGTTCTAGCAAATGAAACAAGGAAATCGAAAGATTCTCTTTT 764

FIG. 2

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A.

<u>Strain</u>	<u>Serotype</u>	<u>Size of PCR product</u>	<u>Putative number of repeats</u>
AP1	1	500	2 ¹
KTL3	1	500	2 ¹
KTL6	1	500	2 ¹
KTL9	1	650	4 ¹
AP4	4	500	2 ¹
AP9	9	NA ²	-
AP12	12	500	2 ¹
AP15	15	850	6 ¹
AP22	22	650	4 ¹
AP34	34	650	4 ¹
AP49	49	750	5 ¹
AP57	57	500	2 ¹

¹Confirmed by sequencing²Not amplifiable

B.

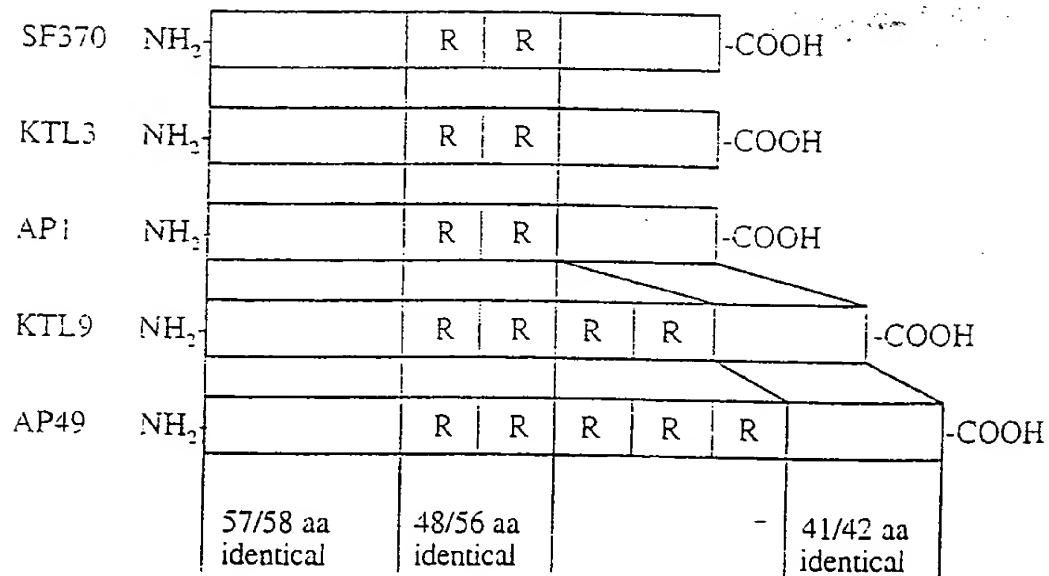


FIG. 3

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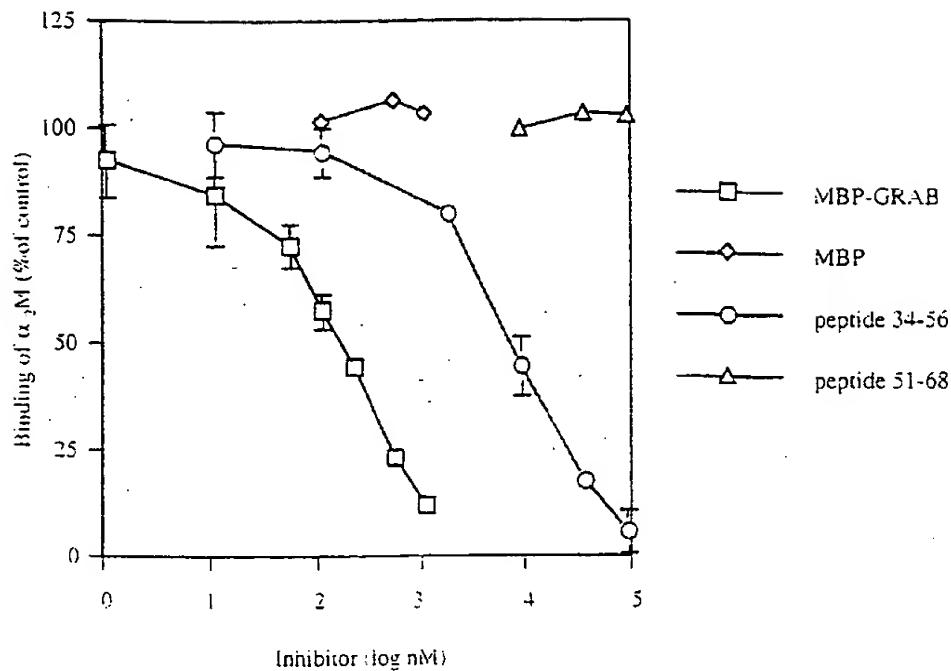


FIG. 4

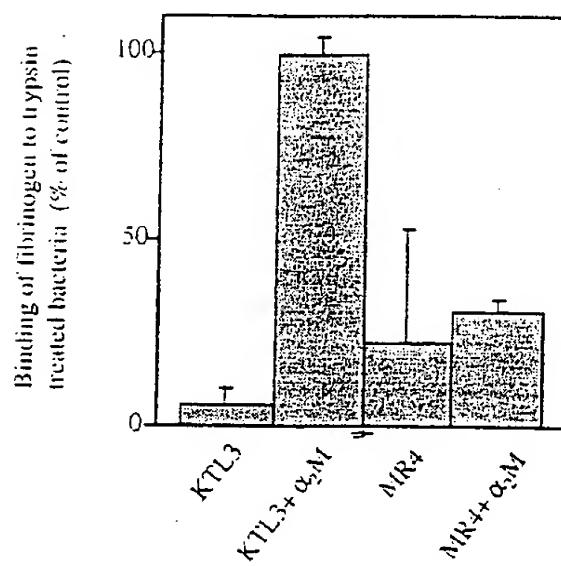


FIG. 6

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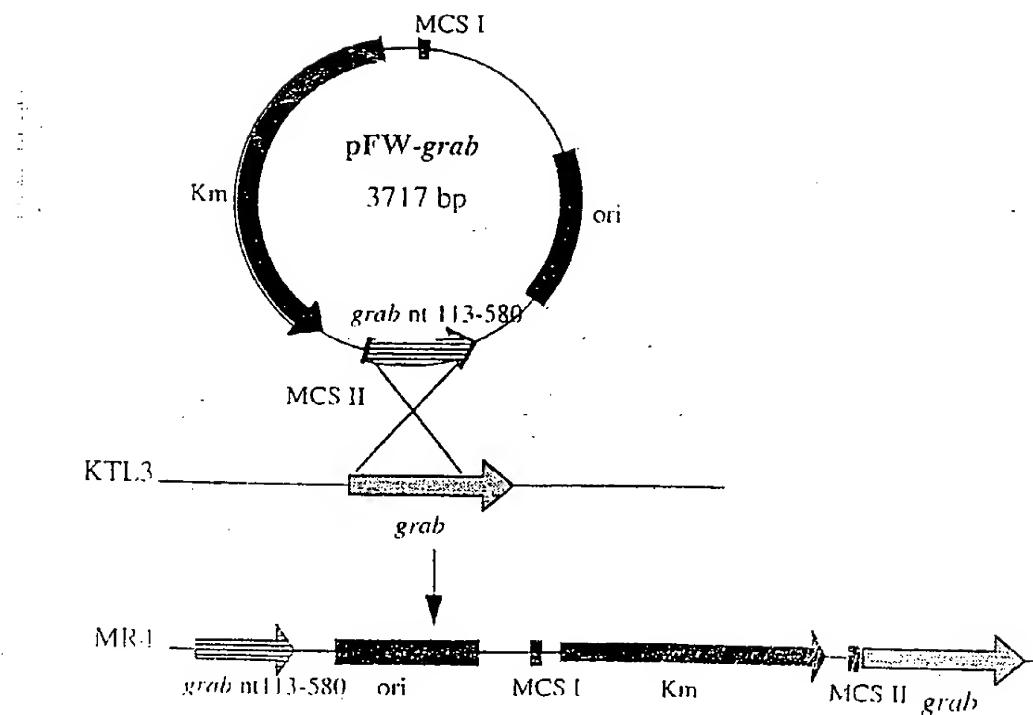


FIG. 5

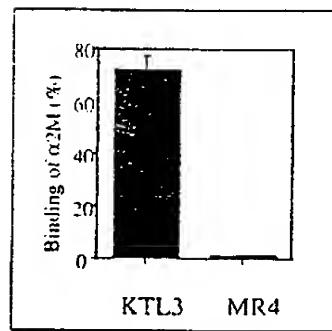


FIG. 5

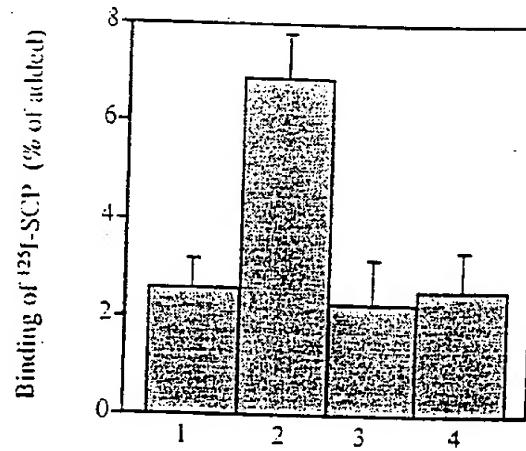


FIG. 7

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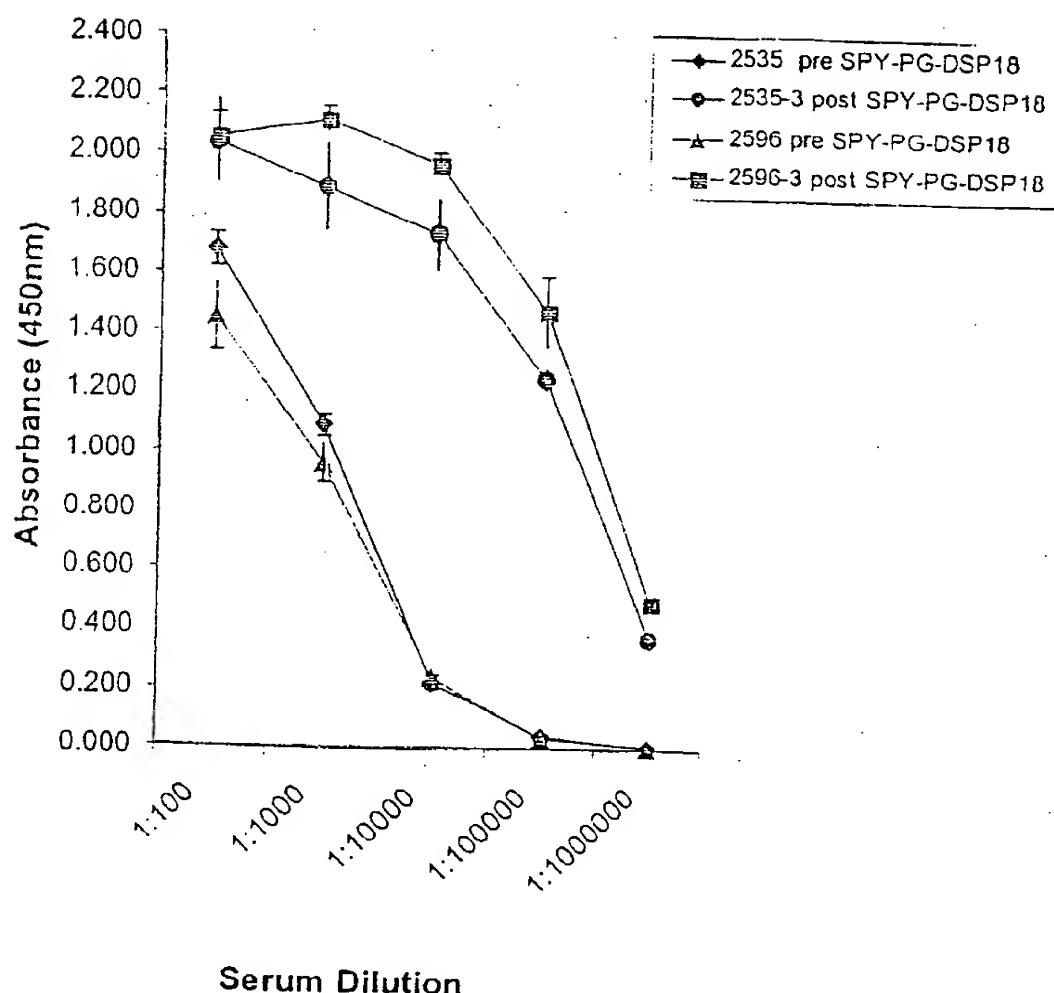


FIG. 8

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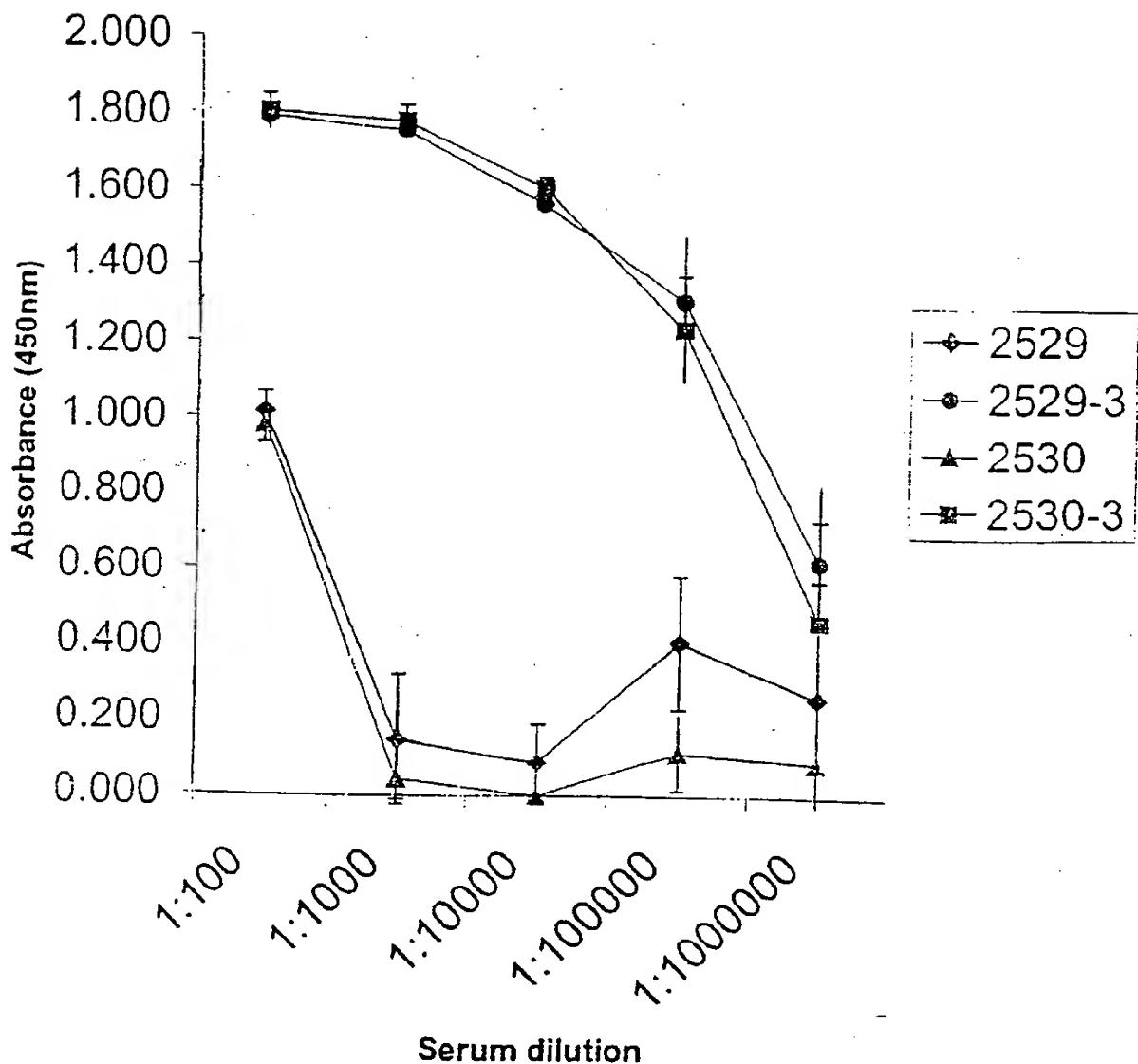
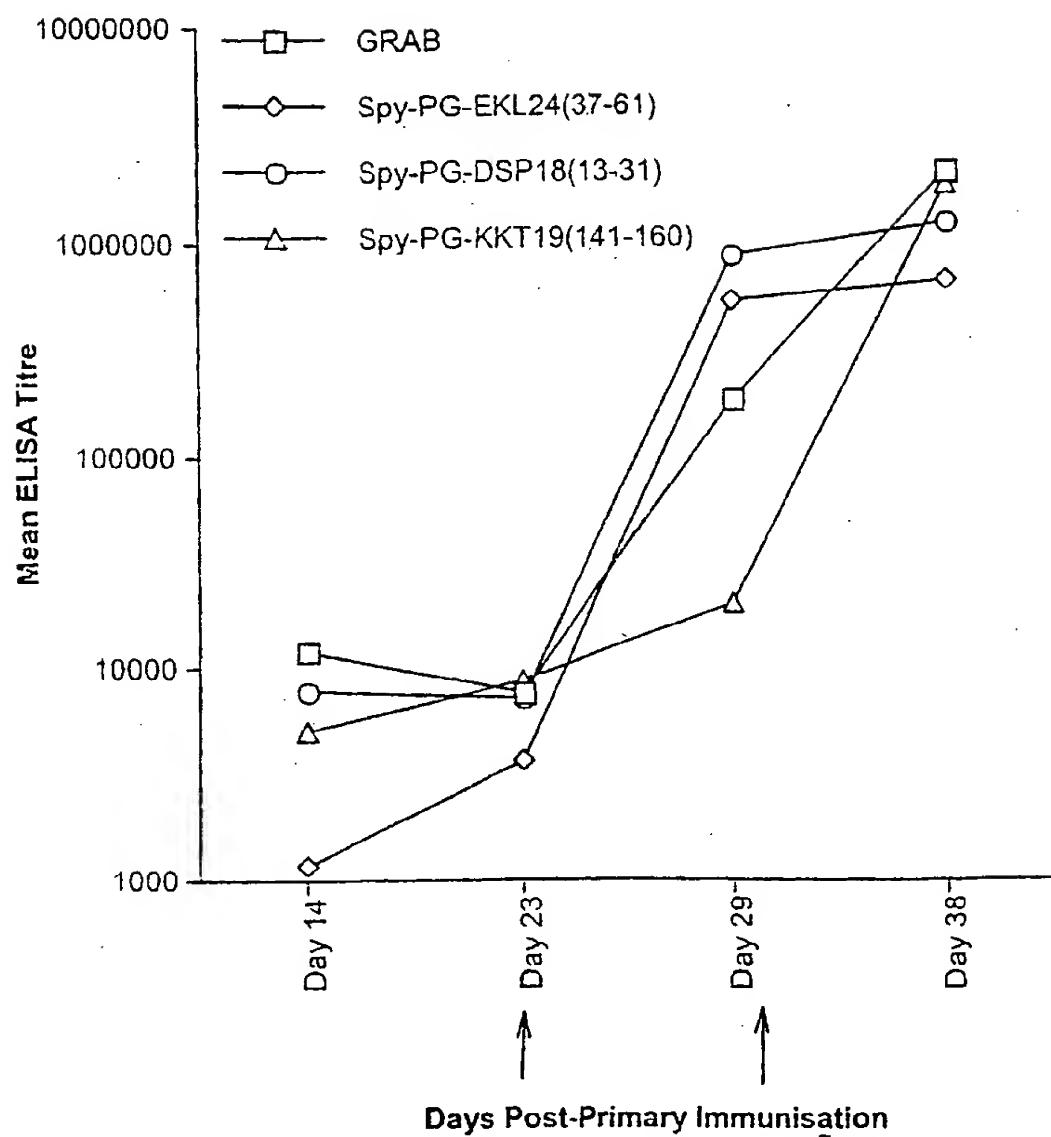


FIG. 9

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*Arrows indicate boost.

Boost 1= 30 µg

Boost 2= 15 µg

FIG. 10

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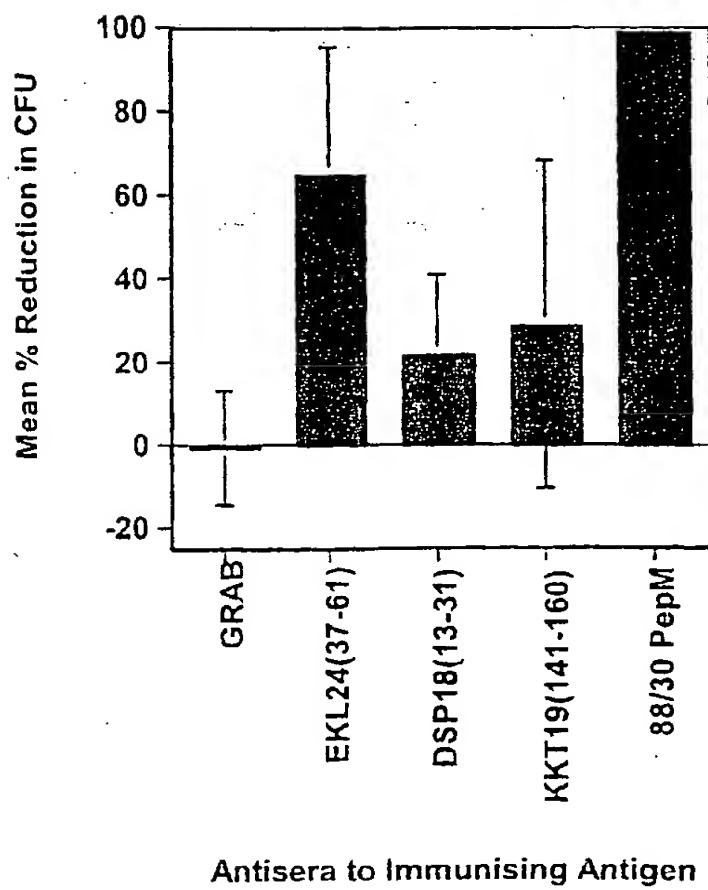


FIG. 11